

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A vehicle drive system, comprising:

a rotating electric machine structured to have a forward direction and a reverse direction as a rotation direction of an output shaft, a maximum output in said reverse direction being smaller than the maximum output in said forward direction;

a battery discharging during power running of said rotating electric machine and being charged during regenerative operation of said rotating electric machine, voltage between terminals of said battery being increased while said battery is charged, and being decreased while said battery discharges; and

a rotary shaft rotating in a direction allowing a vehicle to move forward in accordance with rotation of said output shaft in the forward direction.

2. (Previously Presented) The vehicle drive system according to claim 1, wherein said rotating electric machine includes

a stator, and

a rotor having a shape that allows the maximum output in the rotation in said reverse direction to be smaller than the maximum output in the rotation in said forward direction.

3. (Previously Presented) The vehicle drive system according to claim 2, wherein

said rotor has a plurality of salient pole portions, and

each of said plurality of salient pole portions has a shape tilted with respect to an axis passing through a rotation center and orthogonal to said output shaft.

4. (Previously Presented) The vehicle drive system according to claim 2, wherein said rotor is provided with a flux barrier bilaterally asymmetric with respect to an axis passing through a rotation center and orthogonal to said output shaft.

5. (Currently Amended) The vehicle drive system according to claim 1, further comprising:

an inverter disposed on a path for receiving and distributing current between said battery and said rotating electric machine, and

a control device obtaining rotation information from said rotating electric machine to control said inverter, wherein

said control device controls said inverter such that torque in said forward direction is generated in ~~said~~ a rotor in accordance with an acceleration instruction to allow said rotating electric machine to perform power running, and that torque in said reverse direction is generated in said rotor in accordance with a deceleration instruction to allow said rotating electric machine to perform regenerative operation.

6. (Previously Presented) A vehicle, comprising:

a vehicle drive system, wherein said vehicle drive system includes

a rotating electric machine structured to have a forward direction and a reverse direction as a rotation direction of an output shaft, a maximum output in said reverse direction being smaller than the maximum output in said forward direction,

a battery discharging during power running of said rotating electric machine and being charged during regenerative operation of said rotating electric machine, voltage between terminals of said battery being increased while said battery is charged, and being decreased while said battery discharges, and

a rotary shaft rotating in a direction allowing a vehicle to move forward in accordance with rotation of said output shaft in the forward direction; and

a wheel connected to said rotary shaft.

7. (Previously Presented) The vehicle according to claim 6, wherein said rotating electric machine includes

a stator and

a rotor having a shape that allows the maximum output in the rotation in said reverse direction to be smaller than the maximum output in the rotation in said forward direction.

8. (Previously Presented) The vehicle according to claim 7, wherein

said rotor has a plurality of salient pole portions, and

each of said plurality of salient pole portions has a shape tilted with respect to an axis passing through a rotation center and orthogonal to said output shaft.

9. (Previously Presented) The vehicle according to claim 7, wherein said rotor is

provided with a flux barrier bilaterally asymmetric with respect to an axis passing through a rotation center and orthogonal to said output shaft.

10. (Currently Amended) The vehicle according to claim 6, wherein

said vehicle drive system further includes

an inverter disposed on a path for receiving and distributing current between said battery and said rotating electric machine, and

a control device obtaining rotation information from said rotating electric machine to control said inverter, and

said control device controls said inverter such that torque in said forward direction is generated in ~~said~~ a rotor in accordance with an acceleration instruction to allow said rotating electric machine to perform power running, and that torque in said reverse direction is generated in said rotor in accordance with a deceleration instruction to allow said rotating electric machine to perform regenerative operation.